

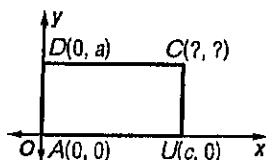
8-7 Skills Practice**Coordinate Proof with Quadrilaterals**

Position and label each quadrilateral on the coordinate plane.

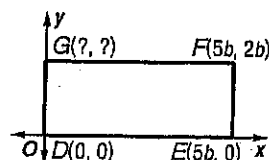
- rectangle with length $2a$ units and height a units
- isosceles trapezoid with height a units, bases $c - b$ units and $b + c$ units

Name the missing coordinates for each quadrilateral.

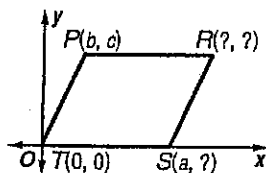
3. rectangle



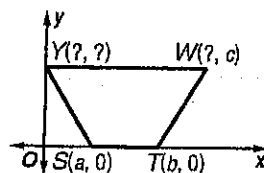
4. rectangle



5. parallelogram



6. isosceles trapezoid



Position and label the figure on the coordinate plane. Then write a coordinate proof for the following.

- The segments joining the midpoints of the sides of a rhombus form a rectangle.

8-7

Practice

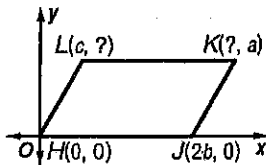
Coordinate Proof with Quadrilaterals

Position and label each quadrilateral on the coordinate plane.

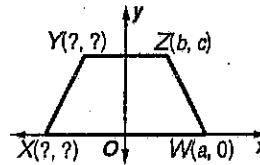
1. parallelogram with side length b units and height a units
2. isosceles trapezoid with height b units, bases $2c - a$ units and $2c + a$ units

Name the missing coordinates for each quadrilateral.

3. parallelogram



4. isosceles trapezoid



Position and label the figure on the coordinate plane. Then write a coordinate proof for the following.

5. The opposite sides of a parallelogram are congruent.

6. **THEATER** A stage is in the shape of a trapezoid. Write a coordinate proof to prove that \overline{TR} and \overline{SF} are parallel.

